

LISTING OF THE CLAIMS

Please amend the claims as follows:

Claims 1-23. (Cancelled)

24. (Previously presented) A method of ~~introducing a nucleic acid encoding desired molecule into~~ stable and efficient transformation of cardiomyocytes which comprises:
infusing a recombinant adeno-associated virus (AAV) vector into a coronary artery or a coronary sinus of an animal in an amount of about 1×10^5 to about 1×10^9 infectious units (IU) AAV per gram body weight and for a time sufficient to stably and efficiently transduce cardiomyocytes perfused through said artery or said sinus, wherein said AAV vector comprises at least one nucleic acid molecule operably linked to a control region, said nucleic acid molecule encoding said desired molecule an angiogenic protein.
25. (Previously presented) The method of claim 24, wherein said AAV transduces at least about 10% of said cardiomyocytes.
26. (Previously presented) The method of claim 24, wherein said AAV transduces at least about 40% of said cardiomyocytes.
27. (Previously presented) The method of claim 24, wherein said AAV transduces at least about 50% of said cardiomyocytes.
28. (Previously presented) The method of claim 24, wherein said AAV is infused for at least about 2 minutes to about 30 minutes.
29. (Previously presented) The method of claim 24, wherein said AAV is infused for at least about 5 minutes to about 20 minutes.
30. (Previously presented) The method of claim 24, wherein said AAV is infused for about 15 minutes.
31. (Cancelled)
32. (Previously presented) The method of claim 24, wherein said amount of AAV is about 1×10^6 IU AAV per gram body weight to about 1×10^8 IU AAV per gram body weight.

33. (Previously presented) The method of claim 32, wherein said amount of AAV is about 6×10^7 IU AAV per gram body weight.
34. (Cancelled)
35. (Previously presented) The method of claim 28, wherein about 1×10^6 IU AAV per gram body weight to about 1×10^8 IU AAV per gram body weight is infused.
36. (Previously presented) The method of claim 35, wherein about 6×10^7 IU AAV per gram body weight is infused.
37. (Previously presented) The method of any one of claims 28, 35, or 36, wherein said AAV is infused for about 5 to about 20 minutes.
38. (Previously presented) The method of claim 37, wherein said AAV is infused for about 15 minutes.
39. (Previously presented) The method of claim 24, wherein about 6×10^7 IU AAV per gram body weight is infused for about 15 minutes.
40. (Previously presented) The method of claim 24, wherein said coronary artery is infused ex vivo or in vivo.
41. (Cancelled)
42. (Cancelled)
43. (Previously presented) The method of claim 24, wherein said desired molecule angiogenic protein is FGF-1, FGF-2, FGF-5, VEGF, or HIF-1.
44. (Cancelled)
45. (Previously presented) The method of claim 24, wherein said cardiomyocytes are in an individual having a vascular condition selected from the group consisting of restenosis, atherosclerosis, congestive heart failure, ischemic cardiomyopathy, malignant arrhythmia, myocardial infarction, congestive heart failure, and dilated and hypertrophic cardiomyopathy.
46. (Cancelled)
47. (Cancelled)